

SCORE Search Results Details for Application 10552515 and Search Result 20081001_124602_us-10-552-515-1.ra1.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
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This page gives you Search Results detail for the Application 10552515 and Search Result 20081001_124602_us-10-552-515-1.ra1.

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OM protein - protein search, using sw model

Run on: October 1, 2008, 12:45:51 ; Search time 587 Seconds
(without alignments)
324.920 Million cell updates/sec

Title: US-10-552-515-1
Perfect score: 4950
Sequence: 1 MRMAATAWAGLQGPPLPTLC.....SELSSHWPFTVPKASQLQQ 933

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1246758 seqs, 204424485 residues

Total number of hits satisfying chosen parameters: 1246758

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /ABSS/Data/CRF/ptodata/2/iaa/5_COMB.pep:*
2: /ABSS/Data/CRF/ptodata/2/iaa/6_COMB.pep:*
3: /ABSS/Data/CRF/ptodata/2/iaa/7_COMB.pep:*
4: /ABSS/Data/CRF/ptodata/2/iaa/H_COMB.pep:*
5: /ABSS/Data/CRF/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /ABSS/Data/CRF/ptodata/2/iaa/RE_COMB.pep:*
7: /ABSS/Data/CRF/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query		DB	ID	Description
		Match	Length			
1	1531.5	30.9	920	2	US-10-104-047-2574	Sequence 2574, Ap
2	1154	23.3	596	2	US-10-104-047-2541	Sequence 2541, Ap
3	912.5	18.4	475	2	US-10-104-047-3116	Sequence 3116, Ap
4	905	18.3	642	3	US-10-108-260A-4483	Sequence 4483, Ap
5	796	16.1	425	2	US-09-270-767-45552	Sequence 45552, A
6	684.5	13.8	483	3	US-10-108-260A-3990	Sequence 3990, Ap
7	594.5	12.0	660	3	US-10-108-260A-3644	Sequence 3644, Ap
8	455.5	9.2	257	3	US-10-100-683-7209	Sequence 7209, Ap
9	455.5	9.2	257	3	US-11-001-793-7209	Sequence 7209, Ap
10	411.5	8.3	393	3	US-09-876-997-457	Sequence 457, App
11	411.5	8.3	393	3	US-10-643-836-457	Sequence 457, App
12	396.5	8.0	215	2	US-09-270-767-61064	Sequence 61064, A
13	353	7.1	366	2	US-09-270-767-32253	Sequence 32253, A
14	353	7.1	366	2	US-09-270-767-47470	Sequence 47470, A
15	290	5.9	189	2	US-09-270-767-31816	Sequence 31816, A
16	290	5.9	189	2	US-09-270-767-47033	Sequence 47033, A
17	255.5	5.2	199	2	US-09-270-767-31722	Sequence 31722, A
18	255.5	5.2	199	2	US-09-270-767-46939	Sequence 46939, A
19	186.5	3.8	166	2	US-09-621-976-4064	Sequence 4064, Ap
20	117	2.4	548	1	US-08-676-279-50	Sequence 50, Appl
21	117	2.4	548	2	US-08-903-139B-8	Sequence 8, Appli
22	117	2.4	548	2	US-08-637-823B-25	Sequence 25, Appl
23	117	2.4	548	2	US-09-614-957D-25	Sequence 25, Appl
24	115.5	2.3	2013	1	US-08-324-977-12	Sequence 12, Appl
25	115.5	2.3	2013	1	US-08-384-616-12	Sequence 12, Appl
26	115.5	2.3	2013	1	US-08-904-686A-12	Sequence 12, Appl
27	115.5	2.3	2013	2	US-09-315-850-12	Sequence 12, Appl
28	115.5	2.3	3010	1	US-08-324-977-2	Sequence 2, Appli
29	115.5	2.3	3010	1	US-08-324-977-14	Sequence 14, Appl
30	115.5	2.3	3010	1	US-08-384-616-2	Sequence 2, Appli
31	115.5	2.3	3010	1	US-08-384-616-14	Sequence 14, Appl
32	115.5	2.3	3010	1	US-08-904-686A-2	Sequence 2, Appli
33	115.5	2.3	3010	1	US-08-904-686A-14	Sequence 14, Appl
34	115.5	2.3	3010	2	US-09-315-850-2	Sequence 2, Appli
35	115.5	2.3	3010	2	US-09-315-850-14	Sequence 14, Appl
36	113.5	2.3	631	3	US-10-369-493-12179	Sequence 12179, A
37	112.5	2.3	1107	3	US-11-216-782-11586	Sequence 11586, A
38	110.5	2.2	680	2	US-09-725-735A-19	Sequence 19, Appl
39	110.5	2.2	680	3	US-10-457-452-19	Sequence 19, Appl
40	108.5	2.2	523	2	US-09-949-016-11540	Sequence 11540, A
41	108.5	2.2	578	2	US-09-052-753B-7	Sequence 7, Appli
42	106	2.1	539	2	US-09-248-796A-16542	Sequence 16542, A
43	105	2.1	1089	2	US-10-012-231A-102	Sequence 102, App
44	105	2.1	1089	2	US-10-015-389A-102	Sequence 102, App
45	105	2.1	1089	2	US-10-006-768A-102	Sequence 102, App

ALIGNMENTS

RESULT 1

US-10-104-047-2574
 ; Sequence 2574, Application US/10104047
 ; Patent No. 6943241
 ; GENERAL INFORMATION:
 ; APPLICANT: HELIX RESEARCH INSTITUTE
 ; TITLE OF INVENTION: No. 6943241el full length cDNA
 ; FILE REFERENCE: H1-A0105
 ; CURRENT APPLICATION NUMBER: US/10/104,047
 ; CURRENT FILING DATE: 2002-03-25
 ; PRIOR APPLICATION NUMBER:
 ; PRIOR FILING DATE:
 ; NUMBER OF SEQ ID NOS: 4096
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2574
 ; LENGTH: 920
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-104-047-2574

Query Match 30.9%; Score 1531.5; DB 2; Length 920;
 Best Local Similarity 37.9%; Pred. No. 4.1e-157;
 Matches 360; Conservative 168; Mismatches 316; Indels 105; Gaps 29;

Qy	44	TSSGSHCARSRMLRRRAQEEDSTVLID---VSPPEAE-----KRGSYGST---AHASEP	91
		: ::: : : : :	
Db	4	SSSGITNGKTKVFHPVA--KDVNILFDELEAVSSPCKDDSLHHPGNLTSTSDDASRLEA	61
Qy	92	GGQQAACRAGS-----PAKPRIADFVLVWEEDLKLDRQQDASARDRTDMHRTWRETFD	146
		: : :: : : : : : : :	
Db	62	GGETVPERNKSNGLYFRDGKCR I-DYILVYRK-----SNPQTEK----REVFER	105
Qy	147	NLRAAGLCVDQDQVQDGNTTVHYALLSASWAVLCYYAEDLRKLPLQE---LPNQASNW	202
		:: ::: : : : : : : : :	
Db	106	NIRAEGLQMEKESSLI-NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFM	164
Qy	203	S-----AGLLAWLGIPNVLL--EVVPDVPP-EYYSRFRVFNKLPRFLGSDNQDTFFST	253
		: : : : : : : : : :	
Db	165	SRIDKQISRLRRWLPKKPMRLDKETLPDLEENDCYTAPFSQQRIHHFI-IHNKETFFNNA	223
Qy	254	KRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQ	313
		: : : : : :	
Db	224	TRSRIVHHILQRIKY-EEGKNKIGLNRLLTNGSYEAAPFLHEGSYRSKNSIRTHGAENHR	282
Qy	314	QVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGC	373
		: : : :	
Db	283	HLLYECWASGWVWYKYQPLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLFVFLYGV	342
Qy	374	LVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMAL	432
		: : : : : : : : : : :	

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Db      343  TLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAV 401

Qy      433  WAVLLLEYWKRSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPER 491
      || : ||:||||: | :|| || | |:|: || ||| | : |||:|: |||
Db      402  WATVLFLEFWKRRRAVIAYDWDLIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQAF 461

Qy      492  SRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLA-AWA-----SRIA 545
      : |: : | |: |: : |:|: | : | | | |:|
Db      462  DKCSRLIVSASGIFFMICVVIAAVFGIVYIRVVTV-----STFAAFKWLIRNNSQVA 514

Qy      546  SLTGSVV--NLVFILILSKIYVSLAHVLRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSP 603
      : ||: | | |:|: :| :| :|| | |:::|:|:|:|:|:| | |
Db      515  T-TGTAVCINFCIIMLLNVLYEKVALLLTNLNEQPRTESEWENSFTLKMFLFQFVNLNSST 573

Qy      604  VYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGQKVINNMQEVLI 662
      ||||| ||| |:| | | | ||| |||:| : :||| | | | :
Db      574  FYIAFFLGRFTGHPGAYLRLINRWLEECHPSGCLIDLQMGIIMVLKQTWNNFMELGY 633

Qy      663  PKLKGWQKFLRLSRKKRKAGASAGASQGPWEDDYELVPCP--GLFDEYLEMVLQFGFVTI 720
      | : : | : | : : | | | | | | | | | | | | | | | |
Db      634  PLIQNWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTI 690

Qy      721  FVAACPLAPLFAALLNNWEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN 780
      ||| | |||| | ||| : |||| | | : |||: | | : |||: | | : | : | : |
Db      691  FVAAPPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIWGILEGIGILSVITN 750

Qy      781  AFLLAFFSSDFLPRAYRW-----TRAHDLRGLFNFTLA-----RAP 816
      ||:| : |||:| | : | :|: | : | :|: | : | :|: | : | :|: | : | :|: |
Db      751  AFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMGVYVNASLSVFRISDFENRSEPSDG 810

Qy      817  SSFAAAHNRTCRYRAFRDDDGH----YSQTYWNLLAIRLAFVIVFEHVVSFVGRLLDLL 871
      | | : : ||| :| | : |||:| |||:| |||:| | : | : |
Db      811  SEFSGTPLKYCRYRDYRPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISYL 870

Qy      872  VPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHW 920
      :||:|: : :||:| || : : | | : | : | : | : |
Db      871  IPDLPKDLDRMRREKYLIQEMMYEALERLQKERKERKKNKAHNEW 919

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RESULT 2

US-10-104-047-2541

; Sequence 2541, Application US/10104047

; Patent No. 6943241

; GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE

; TITLE OF INVENTION: No. 6943241el full length cDNA

; FILE REFERENCE: H1-A0105

; CURRENT APPLICATION NUMBER: US/10/104,047

; CURRENT FILING DATE: 2002-03-25

; PRIOR APPLICATION NUMBER:

; PRIOR FILING DATE:

; NUMBER OF SEQ ID NOS: 4096

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2541
 ; LENGTH: 596
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-104-047-2541

Query Match 23.3%; Score 1154; DB 2; Length 596;
 Best Local Similarity 41.3%; Pred. No. 3.9e-116;
 Matches 250; Conservative 108; Mismatches 194; Indels 54; Gaps 14;

Qy	357	LLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAAQAG	415
Db	2	LFPAAFIGLFLVFLYGVTTLDHSQVSKVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVT	60
Qy	416	RLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDSCDYEDTEERPRPQFAAS-APM	474
Db	61	HLFDNGATVFFAVFMAVWATVLEFWKRRRAVIAYDWDLDIDWEEEEEEIRPQFEAKYSKK	120
Qy	475	TAPNPITGEDEPYFPERSRARMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIIVSRSGN	534
Db	121	ERMNPISGKPEPYQAFDTKCSRLIVSASGIFFMICVVIAAVFGIVIRVVIV-----S	173
Qy	535	TLLA-AWA-----SRIASLTGTSVV--NLVFIILSKIYVSLAHVLRWEMHRTQTKFEDA	586
Db	174	TFAAFKWLIRNNSQVAT-TGTAVCINFCIIMLLNLVLYEKVALLLTNLEQPRTESEWENS	232
Qy	587	FTLKVFIFQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGLIELAQELL	645
Db	233	FTLKMFILQFVNLSSTFYIAFFLGRFTGHPGAYLRLINRWRLLEECHPSGCLIDLQMGMG	292
Qy	646	VIMVGKQVINNMQEVLIPLKLGWWQKFLRLSKRRKAGASAGASQGPWEDDYELVPCE--G	703
Db	293	IIMVLKQTWNFMELGYPLIQNWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYG	349
Qy	704	LFDEYLEMVLQFGFTIFVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVAERAQDIG	763
Db	350	LFDEYLEMILQFGFTIFVAAPLAPLLALLNNIIEIRLDAYKQFVTQWRRPLASRAKDIG	409
Qy	764	IWFHILAGLTHLAVISNAFLAFSSDFLPRAYRW-----TRAHDLRGFLNFTLA	813
Db	410	IWYGILEGIGILSVITNAFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMGVYVNASLS	469
Qy	814	-----RAPSSFAAAHNRTRCRYAFRDDDGH-----YSQTYWNLLAIRLAFV	854
Db	470	VFRISDFENRSEPSDGESEFSGTPLKYCRYRDIRDPHSLVPYGYTLQFHWHLAARLAFI	529
Qy	855	IVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGS	914
Db	530	IVFEHLVFCIKHLISYLPDLPKDLRDRMRREKYLIQEMMYEAELRLQKERKERKKNKG	589
Qy	915	ELSSHW 920	
Db	590	AHHNEW 595	

RESULT 3

US-10-104-047-3116

; Sequence 3116, Application US/10104047

; Patent No. 6943241

; GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE

; TITLE OF INVENTION: No. 6943241e1 full length cDNA

; FILE REFERENCE: H1-A0105

; CURRENT APPLICATION NUMBER: US/10/104,047

; CURRENT FILING DATE: 2002-03-25

; PRIOR APPLICATION NUMBER:

; PRIOR FILING DATE:

; NUMBER OF SEQ ID NOS: 4096

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3116

; LENGTH: 475

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-104-047-3116

Query Match 18.4%; Score 912.5; DB 2; Length 475;

Best Local Similarity 38.0%; Pred. No. 7e-90;

Matches 202; Conservative 89; Mismatches 143; Indels 97; Gaps 12;

```

Qy      430 MALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFP 489
      ||:| : ||:|||| : || || ||:| :
Db      1 MAVWATVFLEFWKRRRAVIAYDWDLDWEEEE----- 32

Qy      490 ERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SR 543
      : ||: : ||:| : : | | || | :
Db      33 -----ICVVIAAVFGVIVYRVVTV-----STFAAFKQWALIRNNSQ 67

Qy      544 IASLTGSVV--NLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFP 601
      |:| ||: | | ||:| :| :| :| | ||:::|:|:|:|:|:| |
Db      68 VAT-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLS 126

Qy      602 SPVYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV 660
      | |||| | | | :| | | | || | ||:| : : || | | | :
Db      127 STFYIAFFLGRFTGHPGAYLRLINRWLEECHPSGCLIDLQCMQGIIMVLKQTNWNNFMEL 186

Qy      661 LIPKLKGWQKFRRLRSKKRKAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFV 718
      | : : || : | : : | | || | | | |||||:|:|:|
Db      187 GYPLIQNWWR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFT 243

Qy      719 TIFVAACPLAPLALLNNWVEIRLDARKEFVCEYRRPVAERAQDIGIWFHILAGLTHLAVI 778
      ||||| |||| |||| : |||| | | : ||:| ||:|:|:| : | : | :|
Db      244 TIFVAAPLAPLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIWGILEGIGILSVI 303

Qy      779 SNAFLFAFSSDFLPRAYYRW-----TRAHDLRGFLNFTLA-----R 814
      |:|:| : ||:| | : : |:|:| :| :
Db      304 TNAFVIAITSDFIPRLVYAYKYGPCAQGEAGQKCMVGVYNASLSVFRISDFENRSEPEP 363

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Qy 815 APSSFAAAHNRTCryRAFRDDDDGH-----YSQTYWNLLAIRLAFVIVFEHVVSFVGRLLD 869
 | | : : | | | : | | : : | : | | | | : | : |
 Db 364 DGSEFSGTPLKYCRYRDYRDPHSLVPYGYTLQFWHVLARLAFIIVFEHLVFCIKHLIS 423

Qy 870 LLVPDIPESVEIKVKREYYLAKQALAEVFLFGTNGTKDEQPKGSELSSHW 920
 | : | : | : : : | | : : : | : : : | : : |
 Db 424 YLIPDLPKDLRDMRREKYLIQEMMYEALERLQKERKERKNGKAHHNEW 474

RESULT 4

US-10-108-260A-4483
 ; Sequence 4483, Application US/10108260A
 ; Patent No. 7193069
 ; GENERAL INFORMATION:
 ; APPLICANT: HELIX RESEARCH INSTITUTE
 ; TITLE OF INVENTION: No. 7193069el full length cDNA
 ; FILE REFERENCE: H1-A0106
 ; CURRENT APPLICATION NUMBER: US/10/108,260A
 ; CURRENT FILING DATE: 2002-03-27
 ; NUMBER OF SEQ ID NOS: 5458
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 4483
 ; LENGTH: 642
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-108-260A-4483

Query Match 18.3%; Score 905; DB 3; Length 642;
 Best Local Similarity 35.4%; Pred. No. 7.8e-89;
 Matches 222; Conservative 106; Mismatches 219; Indels 80; Gaps 17;

Qy 26 GLYCRDQAHAERWAMT--SETSSGSHCARSRMLRRRAQEEDSTVLIDVSPPEAEKRGSGY 83
 | | | | : : : | : | | | | : |
 Db 24 GLYFRDGRKRVYDYLIVYHHKRPFG-----NRTLVRVQHSDDTP-----SGA 64

Qy 84 STAHASEPGGQAAACRAGSPAKPRIADFLVWEEDLKLDRQQDSAADRTDMHRTWRET 143
 : | : | : : | | : | : | : | : | : |
 Db 65 RSVKQDHPGKGLDAGSGEPP-----MDYHEDD-----KRFREE 102

Qy 144 FLDNLRAAGLCVDQDQVQDGNNTTVH---YALLSASWAVLCYYAEDRLRLKLPLQELPNQAS 200
 : | | | : : : | : | : : : | | | | : | : : : :
 Db 103 YEGNLEAGLELE---RD EDTKINGVGVFKIHAPWNVLCREAEFLKLMPTKKMYH--I 156

Qy 201 NWSAGLLAWLGIPNVLLVEVPDPVPEYYSCR-----FRVKNLPRFLGSDNQDTFF 250
 | : | | | : | : | : : | : | : | : | : | : | : |
 Db 157 NETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRLSYFPRSREKQHLFDLSD-KDSFF 213

Qy 251 TSTRKHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRL 310
 | | | : | : | : | : | : | | | : | : | : : :
 Db 214 DSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEF 267

Qy 311 NQRQVLQFQHWARGWKWKYQPLDHVRRYFGKEKVALYFAWLGFYTGWLLPAAVVGTLVFLV 370

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      | |::|:: |::| : |::| |::|::|:: |::|::| | |::|::| : |::|
Db      268 NDRKLLYEWEARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPASIVGIIVFLY 327

Qy      371 GCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLF 429
      | | : :|: |: | : : |::| | : | :|::| |: |::| |::|:|
Db      328 GCATMDENIPSMEMCDQRHNITMCLCDKTCYWKMSACATARASHLFDNPATVFFSVF 387

Qy      430 MALWAVLLELYWKRSATLAYRWDCSDYEDTEERPRPQFAA-----SAPMTAPNPITGED 484
      |::| |::|::| |::| : :|: |: |: |: |: |: |: |: |: |: |: |
Db      388 MALWAATFMEHWKRKQMLNRYRWDLTGFEEDDHPRAEYEARVLEKSLKKESRNKET--D 445

Qy      485 EPHYPPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIIVVSRSGNTLLAAWASRI 544
      : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      446 KVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIYRISMAAALAMNNSPVSRSNIRVT 505

Qy      545 ASLTGSVVNLVFLILSLKIYVSLAHVLTREWMHRTQTKFEDAFTLKVFIFQFVNIFYSSPV 604
      : | :::| |::| :::| : | |::| |: :|: |: |: |: |: |: |: |: |:
Db      506 VTATAVINLNVIIILLDEVYGCIARWLTKEIEVPKTEKSFEERLIFKAFLLKVFVNSYTIPIF 565

Qy      605 YIAFFKGRFVGYPGNYHTLF-GVRNEE 630
      |:|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db      566 YVAFFKGRFVGRPGDYVYIFRSFRMEE 592

```

RESULT 5

US-09-270-767-45552

; Sequence 45552, Application US/09270767

; Patent No. 6703491

; GENERAL INFORMATION:

; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*

; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767

; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 45552

; LENGTH: 425

; TYPE: PRT

; ORGANISM: *Drosophila melanogaster*

; FEATURE:

; OTHER INFORMATION: Xaa means any amino acid

US-09-270-767-45552

Query Match 16.1%; Score 796; DB 2; Length 425;

Best Local Similarity 41.1%; Pred. No. 3.2e-77;

Matches 171; Conservative 85; Mismatches 128; Indels 32; Gaps 9;

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Qy      443 RKSATLAYRWDCSDYEDTEERPRPQFAA---SAPMTAPNPITGEDEPYFP-ERSRARRML 498
      | | | : :|: |: |: | |::| | | : :| | | | : :
Db      1 RYSAEITHRWDLTGFDVHEEHPRPQYLARLEHIPPTRVYVTNIKEPTVPFWRMKLPATV 60

Qy      499 AGSVVIVVMVAVVVMCLVSIILYRAIMAIIVVSRSGNTLLAAWASRIASLTGSVVNLVFL 558

```



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|:::|: : |:::| | : : : | : : : || :
Db      61 FSFSVLLLLIALAFVALLAVVYRMSMLAALKVGASPMTTSSAIVLATASAAAFVNLCLLY 120

Qy      559 ILSKIYVSLAHVLTREWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPG 618
|: :| || || || |||:|:|: |||:|:|: |||||:|:|:|
Db      121 ILNMYNHLAEYLTELEMMWRTQTQFDDSLTLKIYLLQFVNYIASIFYIAFFKGRFVGHPG 180

Qy      619 NYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPLKLGWQKFLRLRSKK 678
|: || | |||:|||| || :| :|||| | : || :| :|:|
Db      181 EYNKLFDIRQECCSSGGCLTELCLQALAIMVGKQAFNTILEVYLPM---FWRKV---LA 233

Qy      679 RKAGASAGASQGP-----WEDDYELVP--CEGLFDEYLEMVLQFGVTFIFVACPL 727
: | | : | | :|:|: || | |||||:| ||||| ||
Db      234 IQVGLSRLFNNTPNPDKTKDERWMDKLLDWGARGLPPEYLEMVLQYGFVTFIFVAAFP 293

Qy      728 APLFALLNNWVEIRLDARKFVCEYRPPVAERAQDIGIWFHILAGLTHLAVISNAFLAFLS 787
|| ||||| :|:|:|:| : :|:|:|: |:|:|:| || : |:|:| |:|:|
Db      294 APFFALLNNILEMRDLDAKLLTHHKRPVSQVRDIDGVWYRILDCIGKLSVITNGFIIAFT 353

Qy      788 SDFLPR-AYYRWTRAHDLRGFLNFTLAR-----APSSFAAAHN----RTCRYRAFR 833
||:| | : | | :|:|:|:| : : : : | || |
Db      354 SDMIPRLVRHXVKNQGTLDGYLNFTLSEFKVIDSPTLYSLAGDLSNITTCRYTDFR 409

```

RESULT 6

```

US-10-108-260A-3990
; Sequence 3990, Application US/10108260A
; Patent No. 7193069
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 7193069e1 full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3990
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-108-260A-3990

```

```

Query Match          13.8%; Score 684.5; DB 3; Length 483;
Best Local Similarity 35.1%; Pred. No. 6.3e-65;
Matches 171; Conservative 95; Mismatches 168; Indels 53; Gaps 14;

```

```

Qy      479 PITGEDE-----PYFPERSRARRMLAGSVVIVVMVAVVVMCLV-----SIILYRAIM 525
| |:| | : | | :|:| : :::|:| :::|:|
Db      2 PAVSEEMALQILNCPDYKLRPYQHSYLRSTVILV--LTLLMCLMIGMAHVLVYVRYLA 59

Qy      526 AIVVSRSGNTLLAAWASRIASLTGSVVNLVLFILILSKIYVSLAHVLTREWEMHRTQTKFED 585
: : | | : : :|:|:|:| :|:|:| :| | :| | :| |
Db      60 SALFSSSAVPPLEEQTAVVVTGALVHYVTIVIMTKINRRVALKLCDFEMPRTFSERES 119

```

Qy 586 AFTLVKVFIFQVNFYSSPVYIAFFKGRFVGYPGNYHTLFGV--RNEECAAGGCLIELAQEL 644
 ||:: | || :|| :||| || |::| | : : ||| | :||:| ::
 Db 120 RFTIRFETLQFFTFHSSLIYIAFILGRINGHPGKSTRLAGLWKLECHASGCMMDLFVQM 179

Qy 645 LVIMVGKQVINNMQEVLPKLGWQKFRRLRSKKRKAGASAGASQGP----WEDDYELVP 700
 || ||::| | ||:| | : || | : | | : | | : || |
 Db 180 AIIMGLKQTLNCEVEYLVP----WVTHKCRS--LRASESGHLPRDPELRDWRNRYLLNP 232

Qy 701 CE--GLFDEYLEMVLQFGVTFIFVAACPLAPLALNNWVEIRLDARKFVCEYRRPVAER 758
 ||||:||||:|||| ||||| || : ||||| | | || | :
 Db 233 VNTFSLFDEFMEMMIQYGTTFIFVAAPPLAPLALFSLNVEIRLDAIKMVWLQRLVPRK 292

Qy 759 AQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRW-----TRAHDLRGFL 808
 |::|| | : | :|||:| :||:|:|:| |:: : |:|:
 Db 293 AKDIGTWLQVLETIGVLAVIANGMVIATSEFIPRVVYKYRSPCLKEGNSTVDCLKGYV 352

Qy 809 NFTLA-----RAPSSFAAAHNRT-CRYRAFRD-DDGHYSQTYWNLLAIRLAFVIVFEH 859
 | :| : | : | | ||| :| :| :| :| ||||| |||:|
 Db 353 NHSLSVFHTKDFQDPDGIEGSENVTLCRYRDYRNPDPYNFSEQFWFLAIRLAFVILFEH 412

Qy 860 VVFSVGRLLDLLVPDIPESVEIKV-KREYYLAKQALAEENVLFGTNGTKDEQPKGSELSS 918
 | : : ||||:|: || : :| : : | | | : :
 Db 413 VALCIKLIAAWFVPDIPQSVKNKVLVKYQRLREKMMWHRQRLGGVGAGSRPP----MPA 468

Qy 919 HWTPTFTV 925
 | || :
 Db 469 HPTPASI 475

RESULT 7

US-10-108-260A-3644
 ; Sequence 3644, Application US/10108260A
 ; Patent No. 7193069
 ; GENERAL INFORMATION:
 ; APPLICANT: HELIX RESEARCH INSTITUTE
 ; TITLE OF INVENTION: No. 7193069el full length cDNA
 ; FILE REFERENCE: H1-A0106
 ; CURRENT APPLICATION NUMBER: US/10/108,260A
 ; CURRENT FILING DATE: 2002-03-27
 ; NUMBER OF SEQ ID NOS: 5458
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3644
 ; LENGTH: 660
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-108-260A-3644

Query Match 12.0%; Score 594.5; DB 3; Length 660;
 Best Local Similarity 24.1%; Pred. No. 7.7e-55;
 Matches 171; Conservative 122; Mismatches 231; Indels 185; Gaps 20;

Qy 228 YSCRFRVNKLPRFLG-SDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLG----- 277

```

      :: || | | | | | | | : : | | : ||
Db 100 FTYRTRQN----FKGFDNDNDDFLTMAECQFII-----KHELENLRKAKDEKMIPGY 146

Qy 278 -----IHQLLAEGVLSAAFLHDGPFKTPPEGPQAPRLNQRVLFQHW-ARWGK 325
      : : || | : : | || | : : | | | :
Db 147 PQAKLYPGKSLRLRLTSGIVIQVFLHDS-----EALKKLEDWTYTRFAL 192

Qy 326 WNKYQPLDHWRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELC 385
      ||| : | : || | : || | : | : | | : |
Db 193 --KYQPIDSIIRGYGETIALYFGFLEYFTFALIPMAVIG----- 229

Qy 386 GSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKS 445
      | : | | : : | | : | : | : | : | | |
Db 230 -----LPYYLFVWE-----DYDKYVIFASFNLWSTVILELWKRGC 265

Qy 446 ATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIV 505
      | : || | : | || | : | ||| : || : | | : |
Db 266 ANMTYRWGTLMKRKFEPRPGFHG---VLGINSITGKEEPLPSYKRLRIYLVSLPFV 322

Qy 506 VMVAVVVVCLVSIILYRAIMAVVRSRGNTLLAAWASRIASLTGSVVNLVFIILSKIYV 565
      : : : : : : : : : : : : : : : |
Db 323 CLCLYFSLYVMMIYFDMEVWALGLHENS---SEWTS-VLLYVPSIYIAIVIEIMNRLYR 378

Qy 566 SLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNIFYSSPVYIAFFKGRFVGYPGNYHTLFG 625
      | || || | : : || | : | || : || |
Db 379 YAEFLTSWENHRLESAYQNHILKVLVFNFLNCFASLFYIAFV----- 422

Qy 626 VRNEECAAGGCLIELAQELLVIMVGKVINNMQEVLPKLGKWW--QKFLRLSKKRKAGA 683
      : : : | | | : : | : | : | : | : | : |
Db 423 LKDMKL-----LRQSLATLLITSQILNQIMESFLP----YWLQRKHGVRVRKRVQAL 470

Qy 684 SAGASQGPWED---DYELVPCGLFDEYLEMVLQFGFVTIFVAAACPLAPLALLNNWVEI 740
      | : : | : | | : || : || : || : || : |
Db 471 KADIDATLYEQVILEKEMGTYLGTDDYLELFLQFGYVSLFSCVYPLAAAFVLLNNFTEV 530

Qy 741 RLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYRWTR 800
      || | : || : | : || : : : || : | : :
Db 531 NSDALMKCRVFKRPFSEPSANIGVQLAFETMSVISVVTNCALIGMSPQV--NAVFPESK 588

Qy 801 AHDLRGFLNFTLARAPSSFAAAHNRTCRYRAFRRDDGHYSQTYWNLLAIRLAFVIVFEHV 860
      | || : : | : | : | : | : | : |
Db 589 A-DL-----ILIVVAVEHA 601

Qy 861 VFSVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDE 909
      : : : | : | : : | : : | : : | : |
Db 602 LLALKFILAFAPDKPRHIQMKLARLEFESLEALKQQQMKLVTENLKEE 650

```

RESULT 8

US-10-100-683-7209

; Sequence 7209, Application US/10100683

; Patent No. 7368531

; GENERAL INFORMATION:

```

; APPLICANT: Rosen, et al.
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS900
; CURRENT APPLICATION NUMBER: US/10/100,683
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: US 60/043,576
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,601
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,845
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,580
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,599
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,664
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,314
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,632
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,892
; PRIOR FILING DATE: 1997-08-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13468
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7209
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-100-683-7209

```

Query Match 9.2%; Score 455.5; DB 3; Length 257;
Best Local Similarity 42.2%; Pred. No. 2.4e-40;
Matches 108; Conservative 41; Mismatches 56; Indels 51; Gaps 9;

Qy	709	LEMVLQFGFVTFIVAACPLAPLFLALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFIH	768
		: ::: :: : :: : :: :: ::	
Db	1	MEMIQLQGFVTLEVASFPPLAPLFLALLNNIIEIRLDAKFVTELRRPVAVRAKDIGIWIYN	60
Qy	769	LAGLTHLAVISNAFLFASSDFLPRA---YYRWTRAHLDRGFLNFTLARAPSSF-----	819
		:: :: : : : ::	
Db	61	LRGIGKLAVIINAFVISFSTSDFIPRLVLYLMYSKNGTMHGFEVNHTL----SSFNVSDFQN	116
Qy	820	AAAHN-----RTCRYRAFDRD---DGHY--SQTYWNLLAIRLAFVIVFEHVSVS	865
		: : : : : : : :: : :	
Db	117	GTAPNDPLDLGYEVQICRYKDYREPPWSKENYDISKDFWAVALAARLAFVVFQNLVMFMS	176
Qy	866	RLLDLLVPDIPESVEIKVKREYYLA-----KQALAENEVLFTNGTKDEQP----	911
		: : : : : :	
Db	177	DFVDVVIDPIPKDISQIHKEKVLMVELFMREEODKOOLL--ETWMEKEROKDEPPCNHH	234

Qy 912 -----KGSELSSH 919
 || ||
 Db 235 NTKACPDLSLGSPAPSH 250

RESULT 9

US-11-001-793-7209

; Sequence 7209, Application US/11001793
 ; Patent No. 7411051
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen, et al.
 ; TITLE OF INVENTION: Human Secreted Proteins
 ; FILE REFERENCE: PS900
 ; CURRENT APPLICATION NUMBER: US/11/001,793
 ; CURRENT FILING DATE: 2004-12-02
 ; PRIOR APPLICATION NUMBER: US/10/100,683
 ; PRIOR FILING DATE: 2002-03-19
 ; PRIOR APPLICATION NUMBER: US 60/040,162
 ; PRIOR FILING DATE: 1997-03-07
 ; PRIOR APPLICATION NUMBER: US 60/043,576
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: US 60/047,601
 ; PRIOR FILING DATE: 1997-05-23
 ; PRIOR APPLICATION NUMBER: US 60/056,845
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: US 60/043,580
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: US 60/047,599
 ; PRIOR FILING DATE: 1997-05-23
 ; PRIOR APPLICATION NUMBER: US 60/056,664
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: US 60/043,314
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: US 60/047,632
 ; PRIOR FILING DATE: 1997-05-23
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 13468
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 7209
 ; LENGTH: 257
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-001-793-7209

Query Match 9.2%; Score 455.5; DB 3; Length 257;
 Best Local Similarity 42.2%; Pred. No. 2.4e-40;
 Matches 108; Conservative 41; Mismatches 56; Indels 51; Gaps 9;

Qy 709 LEMVLQFGFVTIFVAAACPLAPLFPALLNNVWEIRLDARKFVCEYRRPVAERAQDIGIWFHI 768
 :||::|||||:|:|: |||||:|:|:| | |||| |:||||:|:
 Db 1 MEMIIQFGFVTLFVASFPLAPLFPALLNNIIEIRLDARKFVTELRPPVAVRAKDGIWYNI 60

```

Qy      769 LAGLTHLAVISNAFLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF----- 819
      | | : | | | | | : : | : | : | | | | | | | | | | | | | | | | | |
Db      61 LRGIGKLAVIINAFVISFTSDFIPRLVLYLMYSKNGTMHGFVNHTL----SSFNVSDFQN 116

Qy      820 AAHN-----RTCRYAFRD---DDGHY--SQTYWNLLAIRLAFVIVFEHVVSFG 865
      | | : | | | : | : | : | | : | : | | | | | | | : |
Db      117 GTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVFMFS 176

Qy      866 RLLDLLVPDIPESVEIKVKREYYLA-----KQALAENEVLFGTNGTKDEQP---- 911
      : | : | | | : | : : | | | | | | | | | | | | | | | |
Db      177 DFVDWVIPDIPKDISQQIHKEKVLVMEVLFMREEQDKQQLL--ETWMEKERQKDEPPCNHH 234

Qy      912 -----KGSELSSH 919
      | | | |
Db      235 NTKACPDSLGSPPASH 250
  
```

RESULT 10

US-09-876-997-457

; Sequence 457, Application US/09876997

; Patent No. 7060479

; GENERAL INFORMATION:

; APPLICANT: Dumas Milne Edwards, Jean Baptiste

; APPLICANT: Bougueleret, Lydie

; APPLICANT: Jobert, Severin

; TITLE OF INVENTION: FULL-LENGTH HUMAN cDNAs ENCODING POTENTIALLY SECRETED PROTEINS

; FILE REFERENCE: 78.US4.CIP

; CURRENT APPLICATION NUMBER: US/09/876,997

; CURRENT FILING DATE: 2001-06-08

; PRIOR APPLICATION NUMBER: US 09/731,872

; PRIOR FILING DATE: 2000-12-07

; PRIOR APPLICATION NUMBER: US 60/187,470

; PRIOR FILING DATE: 2000-03-06

; PRIOR APPLICATION NUMBER: US 60/169,629

; PRIOR FILING DATE: 1999-12-08

; NUMBER OF SEQ ID NOS: 482

; SOFTWARE: Patent.pm

; SEQ ID NO 457

; LENGTH: 393

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-876-997-457

Query Match 8.3%; Score 411.5; DB 3; Length 393;

Best Local Similarity 23.8%; Pred. No. 3.3e-35;

Matches 111; Conservative 95; Mismatches 172; Indels 89; Gaps 11;

```

Qy      448 LAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVM 507
      : | | | : | | | : | | | : | | | : | | : | : |
Db      1 MTYRWGTLMLKRKFEEPRPGFHG---VLGINSITGKEEPLPSYKRLRIYLVSLPFVCL 57

Qy      508 VAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSL 567
      : : : | : | : : : | : | : | : | : | : | : |
  
```

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```

Qy      219 VVPDVPPEYYSCRFRV--NKLPRFLGSDNQDTFFTTSTKRHQILFEIL--AKTPYGHEKK 274
      |  :: |:  : ||  ::  :|  || |||: | :|: ||  :|  ::
Db      197 VDEEIFPK-RAHRFTAIYSRDKEYLFDIRQDCFFTTAVRSRIVEFILDQRQFPAKNQDM 255

Qy      275 LLGIHQLLAEGVLSAAFLPHDGPFFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDH 334
      || :|:|||| |||:|||||  | :|:||||  || :|||||
Db      256 AFGIERLIAEGVYSAAYPLHDGEITETG-----TMRALLYKHWASVPKWYRYQPLDD 307

Qy      335 VRRYFGEKVALYFAWLGfyTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 387
      :: ||| |: |||||:| || |::|: ||  | : : :| ::| |
Db      308 IKEYFGVIGLYFAWLGYYTYMLLASIVGVICFLYSWFSKKNYPVPKIDICQS 360

```

RESULT 14

US-09-270-767-47470

; Sequence 47470, Application US/09270767

; Patent No. 6703491

; GENERAL INFORMATION:

; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*

; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767

; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 47470

; LENGTH: 366

; TYPE: PRT

; ORGANISM: *Drosophila melanogaster*

US-09-270-767-47470

Query Match 7.1%; Score 353; DB 2; Length 366;

Best Local Similarity 32.4%; Pred. No. 7.3e-29;

Matches 95; Conservative 56; Mismatches 104; Indels 38; Gaps 9;

```

Qy      108 RIADFVLVWEEDLKLDRQQDSAARDRTDMHRT-WRETFLDNLRAAGLCVD--QQDVQDGN 164
      | ||| :  :  | : |: | | | || : || | : | |
Db      93 RSIDFVLAYRIN-----AHEPTELENTEKRRVFANLISQGLEVESSQKD----- 137

Qy      165 TTVHYALLSASWAVLCYAE DLRLKPLQELPNQASNWSAGLLAWLGIPNVL-----LE 218
      : : : | || ||| |::|::|:| :  :  : : :|  :
Db      138 -QIWFKIHAPLELRRYAEILKL RMPMKEIPGMSVNVNSTKSVFSSLKHVFQFFLRNIY 196

Qy      219 VVPDVPPEYYSCRFRV--NKLPRFLGSDNQDTFFTTSTKRHQILFEIL--AKTPYGHEKK 274
      |  :: |:  : ||  ::  :|  || |||: | :|: ||  :|  ::
Db      197 VDEEIFPK-RAHRFTAIYSRDKEYLFDIRQDCFFTTAVRSRIVEFILDQRQFPAKNQDM 255

Qy      275 LLGIHQLLAEGVLSAAFLPHDGPFFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDH 334
      || :|:|||| |||:|||||  | :|:||||  || :|||||
Db      256 AFGIERLIAEGVYSAAYPLHDGEITETG-----TMRALLYKHWASVPKWYRYQPLDD 307

Qy      335 VRRYFGEKVALYFAWLGfyTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 387
      :: ||| |: |||||:| || |::|: ||  | : : :| ::| |

```

Db 308 IKEYFGVKIGLYFAWLGYTTYMLLLASIVGVICFLYSWFSCLKNYVPVKDICQS 360

RESULT 15

US-09-270-767-31816

; Sequence 31816, Application US/09270767

; Patent No. 6703491

; GENERAL INFORMATION:

; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*

; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767

; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 31816

; LENGTH: 189

; TYPE: PRT

; ORGANISM: *Drosophila melanogaster*

US-09-270-767-31816

Query Match 5.9%; Score 290; DB 2; Length 189;

Best Local Similarity 37.8%; Pred. No. 1.8e-22;

Matches 62; Conservative 25; Mismatches 59; Indels 18; Gaps 4;

Qy 249 FFTSTKRHQILFEILAKTPY--GHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQ 306
| :: |: |: || : : | | : || |: |: |: |: ||

Db 39 FLDASTRYSIINFILQRQRFVEGEETADNLGIEKLVQDGVYTCAATLHD----- 87

Qy 307 APRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTL 366
: | | : || || ||| :: || ||||| ||||| | : | : | |

Db 88 ---KDDRDRLLEKAWANISKWKNLQPLDQIKDYFGAKVALYFAWLGFYTGWLLPISVFGVL 144

Qy 367 VFLVGCFVLVSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSAC 409
|| | || ::::| : ||| | | : | : |

Db 145 CFLYGFITWNSDPISRDICDDNGTI-MCPQCDRSCDYWRLNETC 187

Search completed: October 1, 2008, 12:55:52

Job time : 588 secs

SCORE 2.0